

MASO H13004

MASO 16A 220V IP44 3-Pin Industrial Plug and Socket Instruction Manual

Model: H13004

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your MASO 16A 220V IP44 3-pin industrial plug and wall socket. Please read these instructions thoroughly before use and retain them for future reference.

2. SAFETY INFORMATION

WARNING: Electrical work should only be performed by qualified personnel. Failure to follow these safety instructions may result in electric shock, fire, or serious injury.

- Always disconnect power before installing, servicing, or cleaning the plug and socket.
- Ensure the voltage and amperage ratings of the plug and socket match the electrical supply and the connected appliance. This product is rated for 16A and 220-240V.
- Verify proper grounding connections. This product features a 2P+Earth configuration.
- Do not use the product if it appears damaged or if any components are missing.
- The IP44 rating indicates protection against solid objects larger than 1mm and splashing water from any direction. It is not designed for submersion or direct water jets.
- Keep children away from electrical connections.

3. PRODUCT OVERVIEW

The MASO 16A 220V IP44 industrial plug and socket set is designed for robust electrical connections in various environments. It features a 3-pin configuration (2P+Earth) and is constructed from durable nylon with solid copper cylinder conducting material.

Key Features:

- Waterproof and dustproof (IP44 rated).
- Corrosion and aging resistant.
- Flame retardant and high temperature resistant.
- Captive terminal and cord clamp screws for secure wiring.



Figure 3.1: MASO 16A 3-pin industrial plug. This image shows the front view of the blue and white industrial plug, highlighting the three brass pins for electrical connection.



Figure 3.2: Detailed views of the MASO industrial plug. The top image shows the plug's pins and side profile, while the bottom two insets provide a close-up of the pin configuration and the rear cable entry point.

4. SETUP AND INSTALLATION

Proper installation is crucial for safety and performance. Ensure all connections are tight and secure.

1. **Prepare the Cable:** Strip the outer sheath of the electrical cable to the appropriate length, exposing the insulated conductors. Strip a small amount of insulation from each conductor.
2. **Disassemble the Plug/Socket:** Unscrew the housing of the plug or socket to access the terminal block and cord clamp.
3. **Route the Cable:** Pass the cable through the cord grip/gland at the rear of the plug/socket.
4. **Connect Wires:** Connect the live, neutral, and earth wires to their respective terminals. The terminals are typically marked (L for Live, N for Neutral, E for Earth/Ground). Ensure the earth wire is connected first and is slightly longer than the other two, so it is the last to disconnect in case of strain. Tighten the captive terminal screws securely.
5. **Secure the Cord Clamp:** Tighten the cord clamp screws to firmly grip the cable's outer sheath, preventing strain on the internal wire connections.
6. **Reassemble:** Carefully reassemble the plug or socket housing, ensuring all seals are correctly seated to maintain the IP44 rating.
7. **Test:** Before full operation, test the connection for continuity and correct wiring using appropriate electrical testing equipment.



Figure 4.1: Examples of MASO industrial plugs and sockets in use. This collage shows the plug and socket connected to a wall outlet and in various industrial or outdoor settings, demonstrating typical applications.

5. OPERATING INSTRUCTIONS

Once properly installed, operating the MASO industrial plug and socket is straightforward:

- Ensure the power supply to the socket is off before connecting or disconnecting the plug.
- Align the pins of the plug with the corresponding holes in the socket. The earth pin is typically larger and positioned to ensure correct orientation.
- Insert the plug firmly into the socket until it is fully seated.
- If applicable, close any protective covers or locking mechanisms on the socket to secure the connection and maintain environmental protection.
- Switch on the power supply to the socket.
- To disconnect, switch off the power supply, then firmly pull the plug straight out of the socket. Do not pull by the cable.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and safe operation of your industrial plug and socket.

- **Visual Inspection:** Periodically inspect the plug, socket, and connected cable for any signs of damage, wear, cracks, or discoloration. Check for loose connections or exposed wiring.
- **Cleaning:** Disconnect power before cleaning. Wipe the exterior with a dry or slightly damp cloth. Do not use abrasive cleaners or solvents. Ensure no moisture enters the electrical contacts.
- **Cord Clamp Check:** Ensure the cord clamp remains tight and securely holds the cable, preventing strain on the internal connections.
- **Environmental Seals:** Verify that all seals and gaskets are intact and properly seated to maintain the IP44 rating.

7. TROUBLESHOOTING

If you encounter issues, consider the following common troubleshooting steps:

- **No Power:**
 - Check if the power supply to the socket is active.
 - Verify that the plug is fully inserted into the socket.
 - Inspect the cable for damage or breaks.
 - Ensure internal wiring connections are secure and not loose.
- **Intermittent Power:**
 - Check for loose wire connections within the plug or socket.
 - Inspect the pins and contacts for corrosion or damage.
- **Overheating:**
 - Immediately disconnect power.
 - Overheating can indicate an overload or a poor connection. Ensure the connected appliance does not exceed the 16A rating.
 - Check for loose or corroded connections.

If problems persist after troubleshooting, discontinue use and consult a qualified electrician or contact MASO customer support.

8. SPECIFICATIONS

Brand	MASO
Model Number	H13004
Amperage	16 Amps
Voltage	220-240 Volts
IP Rating	IP44 (Splash/Weather Proof)
Number of Poles	3 (2P+Earth)
Material	Nylon (Housing), Solid Copper (Conducting Material)
Color	Blue/White
Item Weight	3.35 ounces
Package Dimensions	5.12 x 2.36 x 2.36 inches
UPC	754914205890

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your MASO industrial plug and socket, please refer to the purchase documentation or contact MASO customer service directly. Keep your proof of purchase for any warranty claims.

MASO Store Link: [Visit the MASO Store on Amazon](#)